

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I verily believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **SUGAR MODIFIED OLIGONUCLEOTIDES** the specification of which:

() is attached hereto.

(XX) was filed on June 6, 1995 as Application Serial No. 08/471,973.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Country	Number	Date Filed	Priority Claimed
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status (patented, pending)
<u>07/835,932</u>	<u>March 5, 1992</u>	<u>Pending</u>
<u>PCT/US91/05720</u>	<u>August 12, 1991</u>	<u>Abandoned</u>
<u>07/566,977</u>	<u>August 13, 1990</u>	<u>Abandoned</u>
<u>07/854,634</u>	<u>July 1, 1992</u>	<u>Abandoned</u>
<u>PCT/US91/00243</u>	<u>January 11, 1991</u>	<u>Abandoned</u>
<u>07/463,358</u>	<u>January 11, 1990</u>	<u>Abandoned</u>

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: **John W. Caldwell and Joseph Lucci**, Registration Nos. 28,937 and 33,307 of the firm of **WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS**, One Liberty Place - 46th Floor, Philadelphia, Pennsylvania 19103, and **Herb Boswell and Laurel Bernstein**, Registration Nos. 27,311 and 37,280, of **ISIS Pharmaceuticals**, 2280 Faraday Avenue, Carlsbad, California 92008.

Address all telephone calls and correspondence to:
Joseph Lucci

WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS
One Liberty Place - 46th Floor
Philadelphia, PA 19103
Telephone No. 215-568-3100.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false

DOCKET NO. : ISIS-4943

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Phillip Dan Cook and Andrew M. Kawaski

Serial No.: Not Yet Assigned

Group Art Unit: Not yet assigned

Filed: Herewith

Examiner: Not yet assigned

For: SUGAR MODIFIED OLIGONUCLEOTIDES

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

ASSOCIATE POWER OF ATTORNEY

The undersigned, of the firm WOODCOCK WASHBURN LLP, One Liberty Place - 46th Floor, Philadelphia, Pennsylvania 19103, Attorney and/or Agents for Applicant(s), hereby appoints the following:

Richard E. Kurtz	Registration No. 19,263	Michael J. Bonella	Registration No. 41,628
Dale M. Heist	Registration No. 28,425	Harold H. Fullmer	Registration No. 42,560
John W. Caldwell	Registration No. 28,937	John E. McGlynn	Registration No. 42,863
Gary H. Levin	Registration No. 28,734	Jonathan M. Waldman	Registration No. 40,861
Steven J. Rocci	Registration No. 30,489	Chad Ziegler	Registration No. 44,273
Dianne B. Elderkin	Registration No. 28,598	Gwilym J.O. Attwell	Registration No. 45,449
John P. Donohue, Jr.	Registration No. 29,916	David N. Farsiou	Registration No. 44,104
Henrik D. Parker	Registration No. 31,863	Paul K. Legaard	Registration No. 38,534
Suzanne E. Miller	Registration No. 32,279	Steven H. Meyer	Registration No. 37,189
Lynn B. Morreale	Registration No. 32,842	Paul B. Milcetic	Registration No. 46,261
Mark DeLuca	Registration No. 33,229	Joseph R. Condo	Registration No. 42,431
Michael P. Dunnam	Registration No. 32,611	Michael K. Jones	Registration No. 41,100
Michael D. Stein	Registration No. 34,734	Frank T. Carroll	Registration No. 42,392
Albert J. Marcellino	Registration No. 34,664	Mark J. Rosen	Registration No. 39,822
David R. Bailey	Registration No. 35,057	Thomas E. Watson	Registration No. 43,243
Doreen Yatko Trujillo	Registration No. 35,719	Eric H. Vance	Registration No. 47,151
Barbara L. Mullin	Registration No. 38,250	Peter M. Ullman	Registration No. 43,963
Michael P. Straher	Registration No. 38,325	Richard B. LeBlanc	Registration No. 39,495
Kevin M. Flannery	Registration No. 35,871	Joseph D. Rossi	Registration No. 47,038
David A. Cherry	Registration No. 35,099	Rosaleen P. Morris-Oskanian	Registration No. 47,321
Lynn A. Malinoski	Registration No. 38,788	George J. Awad	Registration No. 46,528
Steven B. Samuels	Registration No. 37,711	Steven D. Maslowski	Registration No. 46,905
Janet E. Reed	Registration No. 36,252	S. Maurice Valla	Registration No. 43,966
Jeffrey J. King	Registration No. 38,515	Emma R. Dailey	Registration No. P48,491
Robert B. Washburn	Registration No. 16,574	Vincent J. Roccia	Registration No. 43,887
Norman L. Norris	Registration No. 24,196	Robin S. Quartin	Registration No. 45,028
Albert W. Preston, Jr.	Registration No. 25,366	Patrick J. Farley	Registration No. 42,524
Anthony J. Rossi	Registration No. 24,053	Gregory L. Hillyer	Registration No. 44,154
Terence P. Strobaugh	Registration No. 25,460	Stephen C. Timmins	Registration No. 48,481
Michael J. Swope	Registration No. 38,041	Erich M. Falke	Registration No. 49,049

DOCKET NO. : ISIS-4943

- 2 -

PATENT

Jane E. Inglese
Susan C. Murphy
Raymond N. Scott, Jr.
David L. Marcus
Lawrence A. Aaronson
John A. Harrelson

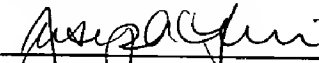
Registration No. 48,444
Registration No. 46,221
Registration No. 48,666
Registration No. 46,897
Registration No. 38,369
Registration No. 42,637

Sharon Fenick
Daniel D. Biesterveld
Christine A. Goddard
Ellen M. Klann
Andrew J. Hagerty
Scott E. Scioli

Registration No. 45,269
Registration No. 45,898
Registration No. 46,731
Registration No. 44,836
Registration No. 44,141
Registration No. 47,930

his/her associates with full power to prosecute the above-identified application and to transact all business in the Patent Office connected therewith and requests that correspondence continue to be directed to the firm of WOODCOCK WASHBURN LLP at the above address.

Date: NOV. 27, 2001



Joseph Lucci
Registration No. 33,307

Woodcock Washburn LLP
One Liberty Place - 46th Floor
Philadelphia PA 19103
Telephone: (215) 568-3100
Facsimile: (215) 568-3439

© 2001 WW